

STEFANCHENKO, A. F.

Coal - Mining Machinery

Introduction of apparatus STsB in underground conveyance of coal shafts dangerous from gas and flames. Mekh. trud. rab. 6 no. 4, 1952.

Monthly List of Russian Accessions, Library of Congress, August 1952. UNCLASSIFIED.

STEPANCHENKO, A .

STEPANCHENKO, A., inzhener; KOMAR', N., inzhener.

Dispatching in underground transportation. Mast.ugl. 3 no.2:13-15  
F '54. (MLRA 7:3)  
(Mine railroads)

STEPANCHENKO, A. F.

KOMAR', N.A., inzhener; STEPANCHENKO, A.F., inzhener.

New signaling system for passenger train traffic.  
v prom. 1 no.6:24-25 Je '57.  
(Railroads--Signaling)

Besop.truda  
(MIRA 10:7)

S/194/61/000/012/047/097  
D256/D303

AUTHORS: Stepanchenko, A. F., Komar', N. A. and Tsesarenko, N.P.  
TITLE: Temperature control apparatus "Ktt-1"  
PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika,  
no. 12, 1961, 28, abstract 12V239 (Ugol' Ukrainy, 1961,  
no. 1, 39-40)

TEXT: A full description and a basic diagram are given of an apparatus developed by Dongidrouglemash for mining compressor temperature-rise control at 8 various points including that of the electric motor bearings and windings and of the compressed air. The set includes the basic unit, a signal panel and 8 sensitive elements. The latter are copper-resistance thermometers or the following KMT-type thermistors: 20 kohm, 40 to 90°C; 55 kohm, 90 to 120°C and 220 kohm, 120 to 170°C. The individual temperature sensing circuits are connected to a common network, the 8 bridge circuits with separate diagonals being constantly connected to a common relay РП-5 (RP-5) via pairs of semiconductor diodes in such a way that the temperatures at

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Temperature control apparatus ...

S/194/61/000/012/047/097  
D256/D303

all 8 points are controlled simultaneously, the relay reacting upon the signal from the element of the highest temperature. The second winding of the relay is also connected to all the diagonals through pairs of diodes reacting on an open circuit in any one of the temperature sensing elements, and in such case a synchronous motor is switched on successively closing the diagonals of the elements until the diagonal of the element which brought the relay into operation is closed. At the same time a scale connected with the motor indicates the overheated element. The accuracy of the relay operation is  $\pm 5^{\circ}\text{C}$ . There are 2 figures. / Abstractor's note: Complete translation. /

Card 2/2

DAVYDOV, I.N.; STEPANCHENKO, H.V.

Simple method for photographing the ocular fundus. Biul.eksp.biol.i  
med. 54 no.7:107-108 J1 '62. (MIRA 15:11)

1. Iz kafedry normal'noy fiziologii (zav. - prof. I.N.Davydov)  
Volgogradskogo meditsinskogo instituta. Predstavlena deystvitel'nym  
chlenom AMN SSSR A.V.Lebedinskim.  
(EYE--EXAMINATION) (PHOTOGRAPHY, MEDICAL)

GEL'MAN, V. M. [Hel'man, V. M.], kand. ekonom. nauk; STEPANCHENKO,  
L. I., kand. ekonom. nauk

Forms of the organization of the work of mechanizers on  
collective farms. Mekh. sil'. hosp. 14 no.1:17-21 Ja '63.  
(MIRA 16:4)

(Ukraine---Farm mechanization)

SERDYUK, S.M.; KOROBO, M.I., kand. tekhn. nauk; SOBOLEV, S.K., kand.  
tekhn. nauk; STEPANCHENKO, L.K.

Control of heat conditions in converter smelting. Avt. 1  
prib. no.4:3-5 O-D '64 (MIRA 18:2)



TRAKHTENBERG, S.I.; SHUTER, L.M.; ~~STEPANCHENKO, M.A.~~ [Stepanchenko, M.A.]  
SHTERN, A.A.; ZHURAVSKIY, V.A. [Zhuravs'kyi, V.A.]; KAPLAN, K.L.

Preparation of the modified MBK-258 casein and its use in the  
treatment of chrome leather.. Leh. prom. no.1:46-48 Ja-Mr '65.  
(MIRA 13:4)

IVANOV, M.Ye.; STEPANCHENKO, N.A.

Progress and strengthening of the "Rassvet" leather firm. Kozh.-  
obuv. prom. 6 no.5:14-18 My '64. (MIRA 17:12)

VARDIN, Grigoriy Dmitriyevich,; STEPANCHENKO, N.I., ved. red.; MUKHINA,  
E.A., tekhn. red.

[New technology and organization of the production of gate  
valves] Novaya tekhnologiya i organizatsiya proizvodstva  
zadvizhek. Moskva, Gos. nauchno-tekhn. izd-vo nef. i gorno-toplivnoi  
lit-ry, 1958. 55 p. (MIRA 11:12)

(Valves)

KAZAKOV, L.I., inzh.-ekonomist; STEPANCHENKO, N.I., vedushchiy red.;  
POLOSINA, A.S., tekhn.red.

[Reference book on labor and wages for petroleum workers] Sprav-  
occhnik po trudu i zarabotnoi plate dlia rabotnikov neftebaz.  
Moskva, Gos.nauchno-tekhn.izd-vo nef. i gorno-toplivnoi lit-ry,  
1958. 222 p. (MIRA 13:4)

1. Rosglavneftesnabzhit pri Gosplane RSFSR.  
(Petroleum workers) (Wages)

SIDORENKO, M.V., glavnyy red.; ZAREMBO, K.S., red.; KREMS, Ye.A., red.;  
RAABEN, V.N., red.; RYABTSEV, N.I., red.; BRENTS, A.D., red.;  
ITSIKSON, B.S., red.; KOMISSAROV, P.G., red.; POPOV, V.I., red.;  
TESNER, P.A., red.; FAL'KEVICH, A.S., red.; STEPANCHENKO, N.I.,  
vedushchiy red.; NOVIKOVA, M.M., vedushchiy red.; MUKHINA, E.A.,  
tekhn.red.

[Ways of developing the gas industry of the U.S.S.R.; transactions  
of the All-Union Conference on Further Development of the Soviet Gas  
Industry] Materialy Vsesoyuznogo soveshchaniya po dal'neyshemu raz-  
vitiyu gazovoi promyshlennosti SSSR: Puti razvitiia gazovoi pro-  
myshlennosti SSSR. Moskva, Gos.nauchno-tekhn.izd-vo nef. i gorno-  
toplivnoi lit-ry, 1958. 432 p. (MIRA 12:4)

1. Vsesoyuznoye soveshchaniye po dal'neyshemu razvitiyu gazovoy  
promyshlennosti SSSR, Moscow, 1957.  
(Gas industry)

GINZBURG, D.B., doktor tekhn.nauk; STEPANCHENKO, N.I., vedushchiy red.;  
POLOSINA, A.S., tekhn.red.

[Use of gas in industrial furnaces and boilers in the city of Moscow and in Moscow Province; papers at a Moscow technological conference] Ispol'zovanie gaza v promyshlennyykh pechakh i kotel'nykh ustanovkakh g. Moskvy i Moskovskoi oblasti; materialy Moskovskogo nauchno-tekhnicheskogo soveshchaniia. Moskva, Gos. nauchno-tekhn.izd-vo nef. i gorno-toplivnoi lit-ry, 1959. 227 p.  
(MIRA 12:6)

1. Nauchno-tekhnicheskoye obshchestvo energeticheskoy promyshlennosti. Moskovskoye pravleniye. 2. Moskovskiy khimiko-tekhnologicheskii institut im. D.I.Mendeleyeva (for Ginzburg).  
(Moscow Province---Gas as fuel)

FEYGEL'SON, B.Yu.[translator]; STEPANCHENKO, N.S., red.; TIKHANOV, A.Ya.,  
tekhn. red.

[The 25th International Foundry Congress held in Brussels and  
Liege from September 29 to October 3, 1958; translated] 25-1  
Mezhdunarodnyi kongress liteishchikov 29 sentiabria - 3 oktiabria  
1958 g. v Briussel'e i L ezhe; doklady. Moskva, Gos.nauchno-  
tekhn.izd-vo mashinostroit.lit-ry, 1961. 751 p. (MIRA 15:2)

1. International Foundry Congress, 25th, Brussels, and Liege, 1958.  
(Founding--Congresses)

BLANK, E.M.; YUROVSKIY, Yu.I.; GULYAYEV, Yu.A., inzh., retsenzent;  
CHILIKINA, N.D., inzh., red.; STEPANCHENKO, N.S., red.  
izd-va; DEMKINA, N.F., tekhn. red.

[Handbook for mold makers] Spravochnik formovshchika. Mo-  
skva, Mashgiz, 1963. 182 p. (MIRA 17:2)



STEPAN CHENKO, P.M.

Automatic conveyer-belt feeder and vibrator installation. Ogneupory  
18 no.5:237-239 My '53. (MIRA 11:10)  
(Refractories industry--Equipment and supplies)  
(Conveying machinery)

STRECHAN, M. A., JR.; BROOKS, A.V., JR.

... of the production of computing equipment in the industry of the Kiev  
region in 1965. Machinebuilding no. 449-71 75-ig '65. (MIRA

components: Generali, Martinabrenco no. 40-71 75-1g '65.

(MIRA 16:8)

STEPANCHENKO, V. G.

Docent K. N. Pogodayev, V. G. Stepanchenko (Irkutsk University)

"The range of from 50 to 300 C found temperature maxia of the direct and reversible currents in natural nickel activated by ions or in the copper of rock salt"

Report presented at a Conference on Solid Dielectrics and Semiconductors,  
Tomsk Polytechnical Inst., 3-8 Feb. 58.  
(Elektrichestvo, '58, No. 7, 83-86)

65718

SOV/139-59-2-17/30

24-3500

AUTHORS: Pogodayev, K.N. and Stepanchenko, V.G.  
 TITLE: The Temperature Variations in the Dark Conductivity of NaCl (Ni) and NaCl (Cu) Phosphors  
 PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika, 1959, Nr 2, pp 112-119 (USSR)

ABSTRACT: The phosphors are used with and without prior treatment with X-rays; they are heated at  $0.5^{\circ}\text{C}/\text{sec}$  over the range 50 to  $300^{\circ}\text{C}$ . (The Ni or Cu is introduced by electrolysis at  $670$  or  $740^{\circ}\text{C}$ .) The silver electrodes are deposited by vacuum evaporation. Fig 1 gives conductivity results for crystals that have not been X-rayed (1 - untreated salt, 2 - NaCl (Ni) activated at  $670^{\circ}\text{C}$ , 3 - NaCl (Ni) activated at  $740^{\circ}\text{C}$ , 4 and 5 - are as 2 and 3 - for NaCl (Cu). Fig 2 gives depolarization current results; the crystals (all activated at  $670^{\circ}\text{C}$ ) are polarized by applying 950V for 30 sec (1 - NaCl read 5 sec after removing the voltage, 2 - read 10 sec after removing the voltage, 3 - NaCl (Ni) read 15 sec after, 4 - NaCl (Ni) read 10 sec after, 5 - NaCl (Cu) read 5 sec after, 6 - NaCl (Cu) read 10 sec after). Table 1 gives activation temperatures, activation energies for current carriers (lower range),

Card 1/3

RUBANOVSKAYA, A.A.; STEPANCHENKO, V.K.

Effect of the addition of certain hydrogen donors on reduction  
processes in tissues at various ages. Uch.zap. KHGU 53:207-213  
'54. (MIRA 11:11)

1. Otdel fiziologii nauchno-issledovatel'skogo instituta biologii  
Khar'kovskogo gosudarstvennogo universiteta imeni A.M.Gor'kogo.  
(AGE) (DEHYDROGENATION)

STEPANCHENKO, V.P., tekhnik

We use new methods of work. Put' i put.khoz. 7 no.9:13 '63.  
(MIRA 16:10)

1. Stantsiya Krylovskaya, Severo-Kavkazskoy dorogi.

STEPANCHENKO, Ye.S.; LOGVINENKO, V.K. [Lohvynenko, V.K.]

Dielectric characteristics of diisocyanatotoluene (102-T product).  
Khim. prom. [Ukr.] no.3:14 J1-S '63. (MIRA 17:8)

1. Ukrainskiy nauchno-issledovatel'skiy institut plasticheskikh  
mass.

STEPANCHENKO, Z.I.

Work schedule of moving-picture establishments in districts. Kinomekhanik  
no.5:16-18 My '53. (MLBA 6:6)

(Moving-picture industry)



NASHREL'SKIY, Arkadiy Yuzefovich; ~~STEPANCHENKO~~, Z.I., redaktor; EYSYMONT,  
L.O., redaktor; ~~ALEKSANDROV~~, V.I., ~~tekhnicheskij~~ redaktor

[Organization and operation of motion-picture projectors in rural  
districts] Organizatsiia i ekspluatatsiia sel'skikh kinoustanovok.  
Moskva, Gos. izd-vo "Iskusstvo," 1955. 161 p. (MLRA 8:7)  
(Motion-picture projection)

STEPANCHENOK-RUDNIK, G.I. (Moskva, D.182, Shchukinskaya ul., d.33, kv.37);  
AVENIROVA, Z.A. (Moskva, D-182, Shchukinskaya ul., d.33, kv.53)

Electrophoretic examination of extracts from rabbit cancer and  
papilloma tissues. Vop.onk. 1 no.5:20-24 '55. (MLBA 10:1)

1. Iz otdela virusologii (sav. - deystvitel'nyy chlen AMN SSSR L.A.  
Zil'ber) Instituta epidemiologii i mikrobiologii im. Gamaleya Akade-  
mii meditsinskikh nauk SSSR (dir. - deystvitel'nyy chlen AMN SSSR  
G.V.Vygodchikov)

(VIRUS DISEASES, experimental,

Shope papilloma, tissue extracts, electrophoresis)

(NEOPLASMS,

tissue extracts, electrophoresis)

(ELECTROPHORESIS,

of Shope papilloma & tumor tissue extracts)

(TISSUE EXTRACTS,

Shope papilloma & tumor tissue, electrophoresis)

*Stepanchenko, G.I.*

NARTSISSOV, N.V. (Moskva, D-182, Shchukinskaya, d.33, kv.46); AVENIROVA, Z.A. (Moskva, D-182, Shchukinskaya d.33 kv.53); ~~STEPANCHENOK, G.I.~~ (Moskva, D-182, Shchukinskaya, d.33, kv.37); SOLOV'YEVA, N.Ya. (Moskva, Kropotkinskiy pr. d.23, kv.9)

Serological and biological activities of precipitable and nonprecipitable fractions of Shope rabbit papilloma. Vop.onk. 1 no.6:59-64 '55.

(MIRA 10:1)

1. Iz otdela virusologii (zav. otделom - deystvitel'nyy chlen AMN SSSR prof. L.A.Zil'ber) Instituta epidemiologii i mikrobiologii im. N.F.Gamaleya (dir. - deystvitel'nyy chlen AMN SSSR prof. G.V.Vygodchikov)

(VIRUS DISEASES, experimental,  
Shope papilloma, immunol. & biol. reactions of precipitable  
& non-precipitable fractions)

NARCISOV, N.V.; AVENIROVA, Z.A.; STEPANCHENOK, G.I.; SOLOVIEVA, N.J.

Shope rabbit papilloma: serological and biological activities of  
sedimentable and non-sedimentable fractions of papilloma suspensions)  
Neoplasma, Bratisl. 4 no.3:196-203 1957.

(NEOPLASMS, exper.

Shope rabbit papilloma virus, serol. & biol. activities  
of sedimentable & non-sedimentable fractions)

(VIRUSES

same)

STEPANCHENOK, G. I., SOLOV'YEVA, N. YA., NARTSISSOV, N. V., AVENIROVA, Z. A.

"Serological and Biological Activity of Precipitating and Nonprecipitating Fractions of Rabbit Shope Papilloma." Proceedings of Inst. Epidem and Microbiol im. Gamaleya 1954-56.

Division of Virology, Zil'ber, L. A., professor, Active Member, Academy of Medical Sciences USSR, Inst. Epidem and Microbiol im. Gamaleya AMS USSR.

SO: Sum 1186, 11 Jan 57.

STEPANCHENOK, G.I.; TOGUNOVA, A.I.; KHATENEVER, M.L.; KULIKOVA, M.F.

Effect of ultrasound on Mycobacterium tuberculosis. Zhur.  
mikrobiol.epid. i immun. 30 no.5:90-95 My '59. (MIRA 12:9)

1. Iz Instituta epidemiologii i mikrobiologii imeni Garalei  
AMN SSSR.

(MYCOBACTERIUM TUBERCULOSIS, eff. of radiations.

ultrasonics (Rus))

(ULTRASONICS, eff.

on M. tuberc. (Rus))

TOGUNOVA, A.I.; KARSANOVA, A.V.; STEPANCHENOK, G.L.

Antigenic properties of *Mycobacterium tuberculosis* suspensions  
exposed to ultrasound. Zhur.mikrobiol.epid. i immun. 30 no.5:  
95-99 My '59. (MIRA 12:9)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei  
AMN SSSR.

(MYCOBACTERIUM TUBERCULOSIS, eff. of radiations,  
ultrasonics, on antigenic properties (Rus))

(ULTRASONICS, eff.  
on *M. tuberc.* antigenic properties (Rus))

STEPANCHENOK-RUDNIK, G.I.; NEKHOTENOVA, Ye.I.; BLAGOVESHCHENSKIY, V.A.;  
PAVLOV, P.V.

Effect of ultrasonic waves on diphtheria toxin; author's abstract.  
Zhur.mikrobiol.,epid.i immun. 30 no.11:118-119 N '59. (MIRA 13:3)  
(DIPHTHERIA) (TOXINS AND ANTITOXINS)  
(ULTRASONIC WAVES--PHYSIOLOGICAL EFFECT)



17(3)  
 AUTHORS: Abelev, G. I., Avenirova, Z. A., SOV/20-124-6-40/55  
 Engelfigardt, N. V., Baydakova, Z. L., Stepanchenok-Rudnik, G. I.

TITLE: An Organospecific Antigen of the Liver Absent in the Hepatoma  
 (Organospetsificheskiy antigen pecheni, otsutstvuyushchiy v  
 gepatome)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 6, pp 1328-1330  
 (USSR)

ABSTRACT: The problem of the antigen simplification in malignisation  
 arises when it was proved (Refs 1-3) that mitochondria and  
 microsomes of the liver are losing the organospecific antigen  
 in the experimental canceration. This simplification was  
 confirmed (Ref 4), but at the same time an organospecific  
 antigen was found in the hepatoma. Yet the question is not  
 solved in many respects (Ref 5). The authors investigated this  
 problem on cytoplasmic granulae and on a hepatoma transferable  
 by vaccination by means of precipitation in agar (Ref 6). For  
 this purpose the hepatoma and liver of C<sub>3</sub>HA mice and other  
 mice species were used. The preparation method of antigens of  
 the mitochondria and microsomes from the liver (MML) and from

Card 1/3

An Organospecific Antigen of the Liver Absent in the Hepatoma SOV/20-124-6-40/55

the hepatoma (MMH) and the performance of the reaction were previously described (Ref 7). The fact of antigen simplification of the MML compared with MMH, as such becomes very clear (Fig 1). The bands of the lost antigens can be seen in all preparations (up to 4 antigens in the protein fraction of the MML). It was of interest to check the organospecificity of the lost antigens. For this purpose the anti-MMH serum was partly neutralized by a solution of renal MM, the precipitate was removed and the serum obtained was determined with antigens of liver, hepatoma, kidney and spleen. It was found that the antigen bands missing in the hepatoma are also missing in the MMs of the kidney and spleen. Apparently the antigens detected by the authors are specific of the liver only. Thus the data obtained by the authors (by a different method and from a different tumor) confirm the results of Weller (Refs 1-3). The question of the occurrence of organospecific antigens in the hepatoma remains unsolved. The authors succeeded in isolating one of these antigens (AO) and in investigating its immunologic specificity. This isolation is based on the fact that AO is most closely connected with the MML-wall and is left there after the extraction of the other agents.

Card 2/3

An Organospecific Antigen of the Liver Absent in the Hepatoma SOV/20-124-6-40/55

One of the methods of AO isolation is described. Its reactions are presented in the figures 2-4. The authors were thus able to isolate one of the organospecific liver antigens which are absent in the hepatoma. The investigation is continued with regard to the explanation of its chemical nature, localization within the cell, etc. There are 4 figures, 1 table, and 9 references, 1 of which is Soviet.

PRESENTED: September 27, 1958, by V. A. Engel'gar't, Academician

SUBMITTED: September 21, 1958

Card 3/3

STEPANCHENOK-RUDNIK, G.I.; BLAGOVESHCHENSKIY, V.A.

Use of ultrasonic waves in microbiology and the biochemistry of  
microbes; survey of the literature. Zhur.mikrobiol. epid. i immun.  
3t no.3:44-48 Mr '60. (MIRA 14:6)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN  
SSSR. (ULTRASONIC WAVES--PHYSIOLOGICAL EFFECT) (MICROBIOLOGY)

BLAGOVESHCHENSKIY, V.A.; STEPANCHENOK, RUDNIK, G.I.; ZHULINA, L.V.

Studies on the chemical composition of BCG culture extracts exposed to ultrasonics and the isolation of a soluble antigen from them.  
Zhur.mikrobiol.epid.i immun. 32 no.3:17-22 Mr '61. (MIRA 14:6)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.  
(MYCOBACTERIUM TUBERCULOSIS) (ANTIGENS AND ANTIBODIES)  
(ULTRASONIC WAVES—PHYSIOLOGICAL EFFECT)

STEPANCHENOK-RUDNIK, G.I.; BLAGOVESHCHENSKIY, V.A.

Isolation of a soluble antigen from sound-treated cultures of  
Mycobacterium tuberculosis of different strains. Zhur.mikrobiol.  
epid.i immun. 33 no.5:41-45 My '62. (MIRA 15:8)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN  
SSSR.  
(MYCOBACTERIUM TUBERCULOSIS) (ULTRASONIC WAVES--PHYSIOLOGICAL EFFECT)  
(ANTIGENS AND ANTIBODIES)

BLAGOVESHCHENSKIY, V.A.; STEPANCHENOK-RUDNIK, G.I.; ZHULINA, L.V.

Study of the conditions of absorption of a soluble antigen isolated from Mycobacterium tuberculosis subjected to ultrasonic waves. Zhur.mikrobiol., epid.i immun. 33 no.8:130 Ag '62. (MIRA 15:10)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.  
(ANTIGENS AND ANTIBODIES)(BCG)(ULTASONIC WAVES--PHYSIOLOGICAL EFFECT)

NIKOLAYEV, I.N.; STEPANCHIKOV, A.A.; DAVYDOVA, K.I.; KOZLOVA, N.I.;  
KALINKINA, V.A.; SMIRNOVA, M.I.

Method for the direct determination of the coking capacity of coals  
and charges. Koks i khim. no.11:9-15 '60. (MIRA 13:11)

1. Institut goryuchikh iskopayemykh AN SSSR.  
(Coal--Testing) (Coke)



NIKOLAYEV, I.N.; KOZLOVA, N.I.; KALINKINA, V.A.; STEPANCHIKOV, A.A.

Heat capacity of coals and coal mixtures as determined by the  
temperature of their heating. Koks. i khim. no. 3:12-15 '61.  
(MIRA 14:4)

1. Institut goryuchikh iskopayemykh AN SSSR.  
(Coal--Thermal properties)

STEPANCHIKOV, <sup>1</sup>/<sub>E</sub>. A.

AID - P-191

Subject : USSR/Engineering

Card : 1/1

Authors : Cheklyuk, E. F., Organov, K. A., Stepanchikov, E. A.  
and Snarskiy, A. N.

Title : Thermal Treatment of Exhausted Oil Strata (Part II)

Periodical : Neft. khoz., v. 32, #2, 33-38, F 1954

Abstract : The heat injection process is discussed with graphical  
and analytical representation of heat losses in the  
stratum and vertical wall of the well. The example com-  
putation shows that the practical application of the  
process depends upon the minimum temperature (200°C) and  
pressure (80 atm) of the injected medium. 3 charts.

Institution : None

Submitted : No date

OSIPOV, D., kand.tekhn.nauk, podpolkovnik; STEPANCHIKOV, V., podpolkovnik

Fire of a tank unit in a defensive position. Voen. vest. 41 no.7:  
108-110 JI '61. (MIRA 15:1)

(Tank warfare)

STEPANCHIKOV, V., podpolkovnik; ANDRONOV, A., mayor

With the first shot. Voen.vest. 41 no.10:47-51 0 '61.  
(MIRA 15:2)  
(Shooting, Military) (Tanks (Military science))

STEPANCHIKOV, E. A.

AID - P-160

Subject : USSR/Engineering

Card : 1/1

Authors : Chekalyuk, E. B., Oganov, K. A., Stepanchikov, E. A.  
and Snarskiy, A. N.

Title : Thermal Treatment of Exhausted Oil Stratum. (Part I)

Periodical : Neft. khoz., v. 32, #1, 33-38, Ja 1954

Abstract : Injection of a preheated medium along the old stratum is  
outlined for the increase of output of exhausted oil  
well. A thermodynamic equation is developed for heat  
distribution around the injected medium. Two charts  
and tables (Part II will be in next issue).

Institution : Institute of Fuel Resources, Ac. of. Sci., USSR.

Submitted : No date

STANPANCHIKOV, Ye.A.

Industrial practice in removing paraffin from the zone surrounding  
well-bottoms by use of a well-bottom burner. Neft. khoz. 35 no.12:  
55-59 D '57. (MIRA 11:2)

(Paraffins)



BAKHTIYAROV, A.S.; PASTUKHOV, I.V.; STEPANCHIKOV, Ye.A.

Industrial experience in the thermal treatment of wells with  
a thermal injector. Nefteprom. delo no.4:17-20 '63.

(MIRA 17:8)

1. Neftepromyslovoye upravleniye "Ishimbayneft".



VUL', S.M.; SMOLYANSKAYA, A.Z.; STEPANCHONOK, G.I.

Reaction of diffuse precipitation in agar in tuberculosis. Lab.  
delo 7 no.2:40-43 F '61. (MIRA 14:1)

1. TSentral'naya klinicheskaya tuberkuleznaya bol'nitsa i Institut  
epidemiologii i mikrobiologii imeni N.F. Gamalei AMN SSSR, Moskva.  
(MYCOBACTERIUM TUBERCULOSIS)  
(ANTIGENS AND ANTIBODIES)

VOROB'YEV, Viktor Vasil'yevich; STEPANCHUK, Anatoliy Andreyevich;  
MAGON, E.E., red.

[Raising calves and piglets with the use of milk substitutes] Vyrashchivanie teliat i porosiat s ispol'zovaniem zamenitelei moloka. Leningrad, Kolos, 1965. 54 p.  
(MIRA 19:1)

STEPANCHUK, K.F., inzh.; TINIAKOV, N.A., kand. tekhn. nauk, dotsent

Puncture of transformer oil in a flow. Izv. vys. ucheb. zav.;  
energ. 7 no.12:13 D '64. (MIRA 18:2)

1. Belorusskiy politekhnicheskii institut. Predstavlena kafedroy  
tekhniki vysokikh napryazheniy.

DONETS, G.; STEPANCHUK, P.A)

The foremen speak. Stroitel' no.8:6 Ag '57.  
(Kiev--Building blocks)

(MLRA 10:9)

LENSKIY, Yevgeniy Grigor'yevich; ZASLAVSKIY, Naum Moiseyevich;  
STEPANCHUK, Petr Alekseyevich; SLIN'KO, B., red.;  
ZELENKOVA, Ye., tekhn. red.

[Mixed brigade operating on a business accounting basis] Kom-  
pleksnaia khozraschetnaia brigada. Kiev, Gos. izd-vo lit-ry  
po stroit. i arkhitekt. USSR, 1960. 32 p. (MIRA 15:3)  
(Kiev—Construction industry—Finance)

STEPANCHUK, P.<sup>A</sup>, Geroy Sotsialisticheskogo Truda

A great construction project. Sov. profsoiuzy 17 no.21:7-8  
N '61. (MIRA 14:10)

1. Brigadir kompleksnoy brigady kommunisticheskogo truda  
Stroitel'nogo uchastka No.22, Kiyevgorstroy.  
(Kiev--Construction industry)

STEPANCHUK, S., inzhener.

We are improving the organization of labor. Mias. ind. SSSR no.2:  
37 '57. (MLRA 10:5)

1. Tallinskiy myasokombinat.  
(Meat industry)

*СТЕПАНЧУК, С.*

STEPANCHUK, S.

Improve the processing of hides. Mias. ind. SSSR 28 no.5:36-37 '57.  
(MIRA 11:1)

1. Tallinskiy myasokombinat.  
(Hides and skins)



GAPONOV, V.; STEPANCHUK, T.

Retracing the steps to a heroic deed. Kryl.rod. 11..no.2:19 F  
'60. (MIRA 13:6)

(Borodkin, Stepan Romanovich, 1906-1943)

STEPANCHUK, K.F., inzh.; TINYAKOV, N.A., kand.tekhn.nauk, dotsent

Deformation of gas bubbles in a liquid in an electric field.  
Izv.vys.ucheb.zav.; energ. 8 no.4:11-18 Ap '65.

(MIRA 18:4)

1. Belorusskiy politekhnicheskiy institut. Predstavlena kafedroy  
tekhniki vysokikh napryazheniy.

STEPANCHUK, K.F., inzh.

Effect of electrode vibration on stresses and currents in a  
dielectric. Izv.vys.ucheb.zav.; energ. 7 no. 4:23-29 Ap '64.  
(MIRA 17:5)

1. Belorusskiy politekhnicheskii institut. Predstavlena kafedroy  
tekhniki vysokikh napryazheniy.

STEPANCHUK, K.F., inzh.

Effect of an electric field on the solubility of gases in a liquid. Izv. vys. ucheb. zav.; energ. 7 no.7:13-17 '64

1. Belorusskiy politekhnicheskiy institut. Predstavlena kafedroy vysokikh napryazheniy.

STEPANCHUK, K.F., inzh.; ZHNEVICHENKO, S.F.

Gas emission in transformer oil during the vibration of solid particles. Izv.vys.ucheb.zav.; energ. 8 no.3:88-90 S '65.

(MIRA 18:10)

1. Belorusskiy politekhnicheskiy institut. Predstavlena kafedroy tekhniki vysokikh napryazheniy.

STEPANCHUK, T.

Recommendation. Voen. Znan. 41 no.5:9 My '65.

(MIRA 18:5)

STEPANCHUK, V. F., Aspirant

"An Investigation of the Operation of Steam Jets in the Condenser Stages of Steam Turbines." Cand Tech Sci, Moscow Order of Lenin Engineering Inst imeni V. I. Molotov, 17 Dec 54. (VM, 9 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)  
SO: Sum. No. 556, 24 Jun 55

AID P - 4224

Subject : USSR/Heat and Power Engineering

Card 1/1 Pub. 110 a - 5/15

Authors : Deych, M. E. and V. F. Stepanchuk, Kands. Tech. Sci.

Title : Computing operational limits of ejectors with an initial isobaric mixture (stage).

Periodical : Teploenergetika, 3, 26-29, Mr 1956

Abstract : The article reports on experimental data obtained on supersonic ejectors and gives a detailed analysis for the computation of formulae for indraft pressure for the limit of the ejection ratio and of the limit of back pressure. Four diagrams.

Institution : Moscow Power Engineering Institute

Submitted : No date



124-1957-2-1749

Translation from Referativnyy zhurnal, Mekhanika, 1957, Nr 2, p 43 (USSR)

AUTHOR: Stepanchuk, V.F.

TITLE: Investigations on the Performance of Straight Supersonic Nozzles by the Method of Reactive-Force Measurements (Issledovaniye raboty pryamykh sverkhzvukovykh sopel metodom vzveshivaniya , reaktivnogo usiliya)

PERIODICAL: Sb. nauch. rabot. Belorus. politekhn. in-t, 1956, Nr 53, pp 108-115

ABSTRACT: Results are presented of an experimental investigation of a series of supersonic nozzles with conically expanding sections. The tests were conducted in order to determine the velocity coefficient, which consists of the ratio of the actual flow velocity at a given section of the nozzle to the theoretical velocity corresponding to isentropic expansion. Because of the fact that the airflow through the nozzle was not measured during the experiments, the experimental relationships are established as functions of the thrust coefficient based on the pressure drop, at different values of the nozzle opening, and the theoretical velocity of the flow.

Card 1/1 1. Supersonic nozzles--Performance  
2. Supersonic nozzles--Test results

Yu.A. Lashkov

8(6)

SOV/112-59-3-4439

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 3, p 22 (USSR)

AUTHOR: Kuzovnikova, Ye. A., Leonkov, A. M., and Stepanchuk, V. F.

TITLE: Prospects for Power Generation in the BelSSR From Peat Sources  
(Perspektivy razvitiya energetiki BSSR na baze torfyanykh mestorozhdeniy)

PERIODICAL: Sb. nauchn. rabot Belorussk. politekhn. in-t, 1957,  
Nr 61, pp 140-153

ABSTRACT: Peat reserves in the BelSSR amount to 5 billion tons. 2.2 million hectares have been prospected and 5,945 peat bogs have been found, of which 1,508 can be commercially developed. These bogs occupy an area of over 100 hectares (93.3% of the reserves). Ash content of top beds is 2-4%, of lower beds 6-15%. Heat of combustion of the dug peat is 2,100-2,500 kilocal/kg. The annual yield of the peat is evaluated at 50 million tons for the next 50 years. Five groups of the largest peat massifs in the BelSSR which can serve as raw-energy sources for large-size power stations are: (1) the Vasilevichi group

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SOV/112-59-3-4439

Prospects for Power Generation in the BelSSR From Peat Sources

with an equivalent capacity of the massif of 400,000 kw; it is considered expedient to build one large power plant for Cornel', Bobruysk, Zhlobin, and other cities; (2) the Berezina group whose equivalent capacity is 700,000 kw; either one 700,000-kw or two 350,000-kw and 250,000-kw power plants are considered for Volkovyssk, Brest, and other cities; (3) the Sergiyevsk group with a total capacity of 275,000 kw; one power plant is being planned for using peat for both production of electric energy and gas and transmitting them to Minsk; (4) the David-Gorodok group; and (5) the Naroch' group with an equivalent capacity of 500,000 kw. One of the plans under consideration is to build 2 power houses of 250,000 kw each for Polotsk and Molodechno. The aggregate capacity of large electric power stations that could be built on the peat-energy sources in the BelSSR is about 2,600,000 kw.

A.B.M.

Card 2/2

STEPANCHUK, V.F. [Stepanchuk, V.F.], kand.tekhn.nauk; MESENCHUK, A.P.  
[Mesenchuk, A.P.], inzh.

Coefficient of fuel energy utilization for thermal power plants.  
Vestsi AN BSSR.Ser.fiz.-tekhn.nav. no.4:57-60 '58.  
(MIRA 12:4)

(Steam power plants)

STEPANCHUK, V.F., kand. tekhn. nauk

Calculation of steam-jet ejectors of condensing installations.  
Izv. vys. ucheb. zav.; energ. no. 1:112-116 Ja '58. (MIRA 11:7)

1. Belorusskiy politekhnicheskiy institut.  
(Steam jets)

STEPANCHUK, V.F., kand.tekhn.nauk, dotsent; KHUTSKIY, G.I., kand.tekhn.nauk

Analysis of inertial resistance in gas pipes. Izv.vys.ucheb.zav.;  
energ. no.5:88-90 My '58. (MIRA 11:8)

1.Belorussskiy politekhnicheskii institut.  
(Gas flow)

24(8)

SOV/143-59-2-18/19

AUTHOR:

Stepanchuk, V.F., Docent, Candidate of Technical Sciences

TITLE:

A New Training Manual for the Thermodynamics Engineering Course (**Novoye uchebnoye** posobiye po kursu tekhnicheskoy termodinamiki)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy - Energetika, 1959, Nr 2, p 135 (USSR)

ABSTRACT:

The author reviews the manual "Tekhnicheskaya termodinamika" (Thermodynamics Engineering) by G.M. Kostenko, published by the Gosudarstvennoye izdatel'stvo tekhnicheskoy literatury USSR (State Publishing House for Engineering Literature of the Ukr SSR) in the Ukrainian language (Tekhnichna termodinamika, Derzhstekhvidav, Kiiiv, 1958). The manual was approved by the Ukrainian Ministry of Higher Education for use by vuz students. It deals with the entire range of problems of thermal engineering with exception of the elements of chemical thermodynamics, and in this respect it does not differ from other manuals on

Card 1/2

SOV/143-59-2-18/19

A New Training Manual for the Thermodynamics Engineering Course

thermodynamics engineering, for example the well-known manuals "Tekhnicheskaya termodinamika" by A. S. Yastrzhembskiy and the one with the identical title by M.P. Vukalovich and I.I. Novikov. However, for avoiding superfluous repetition, the arrangement of the material is different in comparison to similar manuals, for example "Tekhnicheskaya termodinamika" by A.M. Litvin. After some critical statements and suggestions for improvement, the author approves the contents of the manual as a whole.

Card 2/2



05297

SOV/170-59-8-8/18

10(2,7)

AUTHOR: Stepanchuk, V.F.

TITLE: An Adiabatic Isothermal Nozzle

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, 1959, Nr 8, pp 66 - 71 (USSR)

ABSTRACT: The author makes an analysis of the flow of a compressible gas in a nozzle in the presence of chemical transformations. Gas expansion is considered to be isothermal occurring at the constant static temperature of the flux. In view of high speed of gas motion, its heat transfer to the surrounding medium can be neglected, and the process can be considered an adiabatic one. Therefore the author first discusses in general the basic regularities of an adiabatic-isothermal process on the basis of the equation of state and the first law of thermodynamics. Then he derives formulae for calculating the cross section of the nozzle, Formula 8, making use of continuity condition, in addition to the relations obtained for the adiabatic-isothermal process, and the longitudinal dimensions of the nozzle, Formula 12. The method of calculating nozzle dimensions is described in detail.

Card 1/2

An Adiabatic Isothermal Nozzle

05297

SOV/170-59-8-8/18

There are 3 Soviet references.

ASSOCIATION: Belorusskiy politekhnicheskiy institut (Belorussian Polytechnic Institute),  
Minsk.

Card 2/2

KRAVETS, V.F.; STEPANCHUK, V.F.

Calculation for regenerating heat exchangers with a revolving rotor head. Inzh.-fiz. zhur. no.3:133-137 ~~Mr~~ '60. (MIRA 13:10)

1. Belorusskiy politekhnicheskiy institut im.I.V.Stalina, Minsk.  
(Heat exchangers)

STEPANCHUK, V., kand.tekhn.nauk

Conference of readers. Izv.vys.ucheb.zav.; energ. 3 no.1:  
143-144 Ja '60. (MIRA 13:1)  
(Power engineering)

S/170/60/003/03/25/034  
B014/B007

AUTHORS: Kravets, V. F., Stepanchuk, V. F.

TITLE: The Calculation of Regenerative Heat Exchangers With  
Rotating Checker

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, 1960, Vol. 3, No. 3,  
pp. 133-137

TEXT: In the present paper the calculation of a heat exchanger with rotating checker in the case of direct flow is investigated. Under neglect of the heat conduction of the checker-material and of the gas, the relations (1) are given for the elementary volume (Fig. 1). The relations (2) are the analogues to (1) for cooling. After suitable substitution of formulas (1) and (2) by formulas (5) and (6), a solution is obtained for the temperature of the material. For the material temperature in the heating- and in the cooling zones formulas (12) and (13) are derived. For the temperatures of the warm and of the cold heat carriers formulas (14) and (15) are given. The quantity of heat passing through the regenerative preheater may be calculated by means of formula (15). ✓

Card 1/2

STEPANCHUK, V.F., kand.tekhn.nauk; KHUTSKIY, G.I., dotsent

Discussion on one heat theory. Izv.vys.ucheb.zav.; energ.  
3 no.5:167-169 My '60. (MIRA 13:6)

1. Belorusskiy politekhnicheskiy institut.  
(Heat)

STEPANCHUK, V.F., dot.ent, kand.tekhn.nauk; NIJTSKIY, G.I., dotsent, kand.  
tekhn.nauk

Letter to the editor. Izv. vys. ucheb. zav.; energ. 3 no. 12:117  
D '60. (MIRA 14:2)

(Thermodynamics)

SOROKIN, A.F., doktor tekhn.nauk. prof.; STEPANCHUK, V.F., kand.tekhn.nauk.,  
dotsent

For a thorough and complete study of the laws of heat and mass  
exchange. Izv.vys.ucheb.zav.; energ. 4 no.9:108-110 S '61.  
(MIRA 14:10)  
(Heat-Transmission) (Mass transfer)



IFONKOV, A.M., kand.tekhn.nauk, dotsent; STEPANCHUK, V.F., kand.tekhn.nauk, dotsent; KHUTSKIY, G.I., kand.tekhn.nauk, dotsent; ~~SHAPOSHNIKOV~~, Ye.K., inzh.

From the experience in the modernization of steam turbines. Izv. vys. ucheb. zav.; energ. 4 no.11:120-122 N '61. (MIRA 14:12)

1. Belorusskiy politekhnicheskiy institut.  
(Steam turbines)

S/143/61/000/009/006/006  
D224/D305

AUTHORS: Sorokin, A.F., Doctor of Technical Sciences, Professor, and Stepanchuk, V. F., Candidate of Technical Sciences, ~~Docent~~

TITLE: A study of all aspects of the laws of heat-exchange and of mass-exchange (Results of the conference of the Council for Heat-Exchange and Mass-Exchange held June 5 - 9, 1961, at Minsk)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Energetika, no. 9, 1961, 108-110

TEXT: 740 representatives of the Academy of Sciences USSR, the Academies of Sciences of the Union Republics, related scientific and research institutes, higher education establishments and other organizations attended. The conference was organized by the AS BSSR, by the Ministry of Higher and Secondary Special Education of the USSR, the Academy of Structure and Architecture of USSR, the Institute of Mechanics and Energetics im. G.M. Krzhizhanovskiy, ✓

Card 1/4

A study of all aspects ...

S/143/61/000/009/006/006  
D224/D305

AS USSR. 317 papers were submitted. The following problems of importance were raised: the thermodynamics of the irreversible processes, the theory of the turbulent motion of non-isothermal non-uniform flows, the theory of unbalanced processes, the theory of motion and of heat-transfer of the polyphase and multi-component systems with discrete elements, the development of methods and experimentally obtaining data of the physical properties of substances at high temperatures, pressures, densities. The following papers were read at the plenary session: by Academician AS BSSR A. V. Lykov and Professor S. R. De Groot (Holland) on the thermodynamics of irreversible processes and its application to the study of heat and mass-transfer in a boundary layer; by Professor S. S. Kutateladze on the laws of heat exchange during the boiling of liquids; by Professor P. K. Konakov on transfer of mass and energy; by Professor L. Ye. Kalikhman on problems of heat exchange in rarefied gases. Reports by foreign scientists were also given. There were 9 sections: Section 1: 27 papers, mostly on problems of heat transfer, theory of boundary layer, and thermo-elasticity. Section 2: 37 papers on: 1) The method of calculating heat diffusion at non-

Card 2/4

A study of all aspects ...

S/143/61/000/009/006/006  
D224/D305


stationary thermal conductivity; 2) The creation of electronic computers for solving problems on heat transfer. Sections 3 and 4: 78 papers on: 1) Theory of boundary layers; 2) Phenomena of melting and sublimation of bodies, moving at great supersonic speeds; 3) Theory of turbulent motion of liquids; 4) Heat-exchange in rarefied gases and liquid metals. Section 5: 37 papers on: 1) Heat exchange in boiling liquids up to critical pressures; 2) Heat exchange and mass-transfer during phase transformations; 3) Some problems on heat and mass transfer in evaporation. Section 6: 23 papers on heat and mass exchange in fuel combustion in streams, during chemical transformations etc. Section 7: 24 papers on: 1) Thermodynamical methods of drying; 2) Relation between material and moisture; 3) Drying of corn; 4) Various methods of drying: infra-red, sublimation etc. Section 8: 30 papers on heat and mass transfer in buildings, drying of building materials. Section 9: 37 papers on: 1) Methods of determining the thermophysical characteristics of materials and heat carriers; 2) Devices for determining thermo-physical characteristics of materials, coefficients of diffusion etc. Among numerous resolutions the conference re-

Card 3/4

A study of all aspects ...

S/143/61/000/009/006/006  
D224/D305

requested the Ministry of Higher and Secondary Special Education, USSR, for a) Organization of experimental laboratories for heat and mass exchange in leading colleges of the country; b) Change of the course on heat-exchange to a new course on heat and mass-exchange. The conference decided to organize a uniform terminology and notation on the domain of heat transfer and to work out a uniform standard table of thermo-physical parameters of materials. The conference requested the Ministry of Higher and Secondary Special Education, USSR, to convert the Journal of Engineering and Physics into a Journal of Engineering and Thermo-Physics.



Card 4/4

STEPANCHUK, V.F., kand.tekhn.nauk, dotsent; KHUTSKIY, G.I., kand.tekhn.-  
~~nauk, dotsent~~

"Gas supply" by E.Kh.Odel'skii. Reviewed by V.F.Stepanchuk and  
G.I.Khustskii. Izv. vys. ucheb. zav.; energ. 5 no.3:99-100 Mr  
'62. (MIRA 15:4)

(Gas, Natural) (Odel'skii, E. Kh.)

S/143/62/000/009/002/003  
D238/D308

AUTHORS: Leonkov, A.M., Stepanchuk, V.F., Candidates  
of Technical Sciences and Kravets, V.F.,  
Engineer

TITLE: Some test results on a turbine stage with  
partial admission of the working medium

PERIODICAL: Izvestiya vysshikh.uchebnykh zavedeniy.  
Energetika, no. 9, 1962, 72 - 77

TEXT: In connection with the modernization of the  
bladed section of small district-heating turbines, tests have been  
carried out on an experimental air turbine with full and partial  
admission to the turbine stage. Air was delivered from one or two  
blowers in series, each of which provided a pressure of the order  
of 800 mm H<sub>2</sub>O at a rate of approximately 10,000m<sup>3</sup>/h. During the  
tests measurements were carried out on the total pressure before  
the nozzles at three points around the periphery, the air tempera-  
ture before the nozzles, the speed of rotation of the turbine rotor,

Card 1/2

✓

S/143/62/000/009/002/003  
D238/D308

Some test results ...

the torque, and the air rate. The static pressure was measured in the gap between the nozzle and the working wheel at the root and periphery. The tests indicated that open axial gaps substantially affect the losses in the turbine stage with partial admission of the working medium. At the same time the change in the gap in the partial stage plays a much bigger part than in a stage with full admission. The degree of reaction falls with diminishing admission ratio. With carefully packed axial gaps this reduction occurs on account of the flow of working medium through inoperative channels. The data obtained provide an assessment of the design reaction of a stage with partial steam admission. The investigations provide the main characteristics of the pressure stage with full and partial admission of the working medium and with different axial gaps. The data is valid for the design of similar types of stage with partial admission. There are 5 figures and 1 table.

✓

ASSOCIATION: Belorusskiy politekhnicheskiy institut  
(Belorussian Polytechnic Institute)

SUBMITTED: May 4; 1962

Card 2/2



S/143/63/000/002/002/003  
A004/A127

AUTHORS: Parfenova, N.F., Candidate of Technical Sciences, Stepanchuk,  
V.F., Lecturer, Candidate of Technical Sciences

TITLE: Alternating condition of heat-exchanging apparatus with  
parallel current of heat-transfer agents

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Energetika, no. 2,  
1963, 87 - 90

TEXT: The authors present a method of determining the final temper-  
atures and the quantity of heat to be transferred for heat-exchanging  
apparatus operating on alternating conditions, this method being based on  
the data of the rated condition. The formulae derived and auxiliary graphs  
are given separately for the cases of uniflow heat-exchange and counter-flow  
models. There are 2 figures.

ASSOCIATION: Belorusskiy politekhnicheskii institut (Belorussian Politekhnic  
Institute)

SUBMITTED: June 12, 1962

Card 1/1

PARFENOVA, N.F. kand.tekhn.nauk; STEPANCHUK, V.F., kand.tekhn.nauk, dotsent

Variable operation of heat exchanger apparatus with parallel flow of the heat carriers. Izv. vys. ucheb. zav.; energ. 6 no.2:87-91  
F '63. (MIRA 16:3)

1. Belorusskiy politekhnicheskiy institut. Predstavlena kafedroy teploenergeticheskikh ustanovok elektricheskikh stantsiy.  
(Heat exchangers)

ACCESSION NR: AR4034733

8/0124/64/000/003/B087/B088

SOURCE: Ref. zh. Mekhan., Abs. 3B537

AUTHOR: Protskiy, A. Ye., Stepanchuk, V. F.

TITLE: Heat emission of a flat plate with a laminar boundary layer

CITED SOURCE: Sb. Issled. v obl. teploobmena i aerodinamiki potokov. Minak, M-vo vyssh., sredn. spets. i prof. obrazovaniya BSSR, 1963, 26-31

TOPIC TAGS: hydrodynamics, heat exchange, boundary layer, heat emission, laminar boundary layer

TRANSLATION: An expression is given for the determination of local coefficients of heat emission  $\alpha$  and Nusselt Number  $N$  for a flat plate washed by a laminar stream. The value of quantity  $\alpha$  and  $N$  are arrived at from a Fourier equation and from the condition that the heat from the side of the plate goes only to heat the liquid moving within the limits of a boundary layer. It is assumed here that the infinite speed and temperature are polynomials of the fourth and fifth orders respectively.

DATE ACQ: 02Apr64

SUB CODE: AI, FH

ENCL: 00

Card 1/1

MOSEYEV, I.V., kand.tekhn.nauk; STEPANCHUK, V.F., kand.tekhn.nauk, dotsent

Calculation of gas leakage from a reservoir. Izv. vys. ucheb. zav.;  
energ. 6 no.4:115-120 Ap '63. (MIRA 16:5)

1. Belorusskiy politekhnicheskiy institut. Predstavlena kafedroy  
teploenergeticheskikh ustanovok.  
(Gas dynamics)

NESENCHUK, A.P.; ZEPAKOV, N.I. SEL'DIN, M.I., inzh., retsenzent;  
SNOBORSKIY, A.M., inzh., retsenzent GLUKHOV, B.F., kand.  
tekhn. nauk, retsenzent; STEPANCHUK, V.F., kand. tekhn.  
nauk, retsenzent; VEYNIK, A.I., prof., red.

[Course design of industrial boiler systems] Kursovoe proek-  
tirovanie kotel'nykh ustanovok promyshlennykh kotel'nykh.  
Minsk, Izd-vo M-va vysshego, srednego spetsial'nogo i pro-  
fessional'nogo obrazovaniya BSSR, 1963. 103 p.  
(MIRA 18:1)

DEYCH, M.Ye., doktor tekhn.nauk, prof.; STEPANCHUK, V.F., dotsent, kand.tekhn.  
nauk; TSIKLURI, G.V., inzh.

Distribution of static pressures in the flow of wet steam. Izv. vys.  
ucheb. zav.; energ. 7 no.8:111-115 Ag '64.

(MIRA 17:12)

1. Moskovskiy ordena Lenina energeticheskiy institut.

DEYCH, M.Ye.; STEPANCHUK, V.F.; SALTANOV, G.A.; TSIKLARI, G.V.

Experimental study of condensation jumps. Teplofiz. vys. temp.  
2 no.5:789-796 S-O '64. (MIRA 17:11)

1. Moskovskiy energeticheskiy institut.

LEONKOV, A.M., kand. tekhn. nauk, dotsent; STEPANCHUK, V.F., kand.  
tekhn. nauk, dotsent; PALLADY, N.L., inzh.

Investigation of the aerodynamic characteristics of a complex  
burner device. Izv. vys. ucheb. zav.; energ. 7 no.11:47-53  
N 162 (MIRA 18:1)

1. Belorusskiy politekhnicheskii institut. Predstavlena ka-  
fedroy teploenergicheskikh ustanovok.



DEYCH, M.Ye., doktor tekhn. nauk, prof.; STEPANCHUK, V.F., kand. tekhn. nauk;  
SALTANOV, G.A., inzh., dissertant

Calculation of condensation jumps in the wet steam region. Teplo-  
energetika 12 no.4:81-84. Ap '65. (MIRA 18:5)

1. Moskovskiy energeticheskiy institut.

L 35458-65 EWP(m)/EWT(1)/FCS(k)/EWA(d)/EWA(1) Pd-1 WW

ACCESSION NR: AP5007799

S/0281/65/000/001/0122/0128

AUTHOR: Deych, M. Ye.; Stepanchuk, V. F.; Saltanov, G. A.; Tsiklauri, G. V. 23  
6

TITLE: Experimental studies of condensation discontinuities within an axially symmetric water vapor flow

SOURCE: AN SSSR. Izvestiya. Energetika i transport, no. 1, 1965, 122-128

TOPIC TAGS: condensation discontinuity, nozzle flow, supersonic vapor flow,  
water vapor flow, supercooled vapor flow, Laval nozzle 7

ABSTRACT: The study of high-velocity vapor flows in the presence of phase transitions is of great importance for the theory of steam turbines, atomic power engineering, etc. The present investigation is a continuation of previously published works (Izv. AN SSSR, Energetika i transport, 1964, no. 3; Teplofizika vysokikh temperatur, 1964, no. 5) carried out at the Kafedra parovykh i

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L 35458-65

ACCESSION NR: AP5007799

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1) condensation discontinuities appearing within the free supersonic flow and in the widening portion of the Laval nozzle modify the structure of the flow in an essential way; namely, behind the condensation discontinuity, one observes a weakening and even disappearance of the pressure discontinuity, thus modifying the operating mode of the Laval nozzle; 2) the location of the condensation discontinuity depends on the overheating factor and the time interval needed for the flow from the inner boundary curve to the discontinuity, and 3) the

ASSOCIATION: none

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ENCL: 00

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NO REF SOV: 004

OTHER: 006

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L 1451-66 EWT(1)/EWP(m)/EWA(d)/FCS(k)/EWA(h)/EWA(c) WW  
ACCESSION NR: AP5016343 UR/0281/65/000/003/0105/0110  
621.1.013

AUTHOR: Stepanchuk, V. F. (Moscow); Saltanov, G. A. (Moscow) 28  
B

TITLE: Method of calculating the compression shocks in wet steam within a wide range of pressures

SOURCE: AN SSSR. Izvestiya. Energetika i transport, no. 3, 1965, 105-110

TOPIC TAGS: compression shock, shockwave, steam turbine 13, 44, 55

ABSTRACT: The method of calculation of compression shocks (shockwaves) 1, 44, 55  
at higher pressures is developed; the thermodynamic characteristics of  
the working fluid are determined by means of tabulated data. 1, 44, 55  
made: (1) The finely dispersed moisture particles have velocities identical with  
those of the vapor phase; (2) Phase-equilibrium conditions are maintained during  
the shockwave process. It is found that: (1) The shockwave calculation under the  
above condition can be performed by using the tabulated thermodynamic data,

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